

Product Change Notice (PCN)

Subject: Standardization of Lead Frame and Support Tape for Suzhou and Nishiki products in RH850 Series

Publication Date: 4/24/2025

Effective Date: 2/2/2026

Revision Description: Initial Release

Description of Change:

Renesas will standardize Lead Frame and Support Tape for products assembled at Suzhou and Nishiki in RH850 Series.

	F1L, F1K, F1KM-S2	F1, D1, P1, R1 other than F1L, F1K, F1KM-S2
176pin	Standard Lead Fame and standard Support Tape applied	Standard Support Tape applied
144pin	Standard Support Tape applied	Standard Support Tape applied

Assembly: Suzhou and Nishiki

Refer to “Details of the change” in “Appendix” for details.

Affected Product List: Refer to “Product List” in “Appendix”.

Reason for Change: For stable supply of products by realizing standardization of assembly materials.

Impact on Fit, Form, Function, Quality & Reliability:

The change will have no impact on the fit, form, function, quality and reliability of the devices.

Product Identification:

Our production history data can be queried by using the trace code of the product.

Qualification Status: Refer to "Q100 Qualification Test Results" in "Appendix".

Sample Availability Date: N/A

Device Material Declaration: Please contact Renesas’ sales representatives.

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

For additional information regarding this notice, please contact your Renesas sales representative.

Appendix

Product List

1. RH850/F1L, F1K and F1KM-S2 Series [Standard Lead Frame and standard Support Tape]

R7F7010073AFP-C#AA4	R7F7010524AFP-C#AA4	R7F7015543AFP-C#AA3	R7F7015863AFP-C#AA3
R7F7010073AFP-C#BA4	R7F7010524AFP-C#BA4	R7F7015543AFP-C#BA3	R7F7015863AFP-C#BA3
R7F7010073AFP-C#TA4	R7F7010524AFP-C#TA4	R7F7015543AFP-C#TA3	R7F7015863AFP-C#TA3
R7F7010074AFP-C#AA4	R7F7010533AFP-C#AA4	R7F7015544AFP-C#AA3	R7F7015864AFP-C#AA3
R7F7010074AFP-C#BA4	R7F7010533AFP-C#AA8	R7F7015544AFP-C#BA3	R7F7015864AFP-C#BA3
R7F7010074AFP-C#TA4	R7F7010533AFP-C#BA4	R7F7015544AFP-C#TA3	R7F7015864AFP-C#TA3
R7F7010323AFP-C#AA4	R7F7010533AFP-C#BA8	R7F7015553AFP-C#AA3	R7F7015873AFP-C#AA3
R7F7010323AFP-C#BA4	R7F7010533AFP-C#TA4	R7F7015553AFP-C#BA3	R7F7015873AFP-C#BA3
R7F7010323AFP-C#TA4	R7F7010533AFP-C#TA8	R7F7015553AFP-C#TA3	R7F7015873AFP-C#TA3
R7F7010324AFP-C#AA4	R7F7010534AFP-C#AA4	R7F7015554AFP-C#AA3	R7F7015874AFP-C#AA3
R7F7010324AFP-C#BA4	R7F7010534AFP-C#BA4	R7F7015554AFP-C#BA3	R7F7015874AFP-C#BA3
R7F7010324AFP-C#TA4	R7F7010534AFP-C#TA4	R7F7015554AFP-C#TA3	R7F7015874AFP-C#TA3
R7F7010333AFP-C#AA4	R7F7010563AFP-C#AA4	R7F7015573AFP-C#AA3	R7F7015953AFP-C#AA3
R7F7010333AFP-C#BA4	R7F7010563AFP-C#BA4	R7F7015573AFP-C#BA3	R7F7015953AFP-C#BA3
R7F7010333AFP-C#TA4	R7F7010563AFP-C#TA4	R7F7015573AFP-C#TA3	R7F7015953AFP-C#TA3
R7F7010334AFP-C#AA4	R7F7010564AFP-C#AA4	R7F7015574AFP-C#AA3	R7F7015954AFP-C#AA3
R7F7010334AFP-C#BA4	R7F7010564AFP-C#BA4	R7F7015574AFP-C#BA3	R7F7015954AFP-C#BA3
R7F7010334AFP-C#TA4	R7F7010564AFP-C#TA4	R7F7015574AFP-C#TA3	R7F7015954AFP-C#TA3
R7F7010343AFP-C#AA4	R7F7010573AFP-C#AA4	R7F7015663AFP-C#AA3	R7F7015973AFP-C#AA3
R7F7010343AFP-C#BA4	R7F7010573AFP-C#BA4	R7F7015663AFP-C#BA3	R7F7015973AFP-C#BA3
R7F7010343AFP-C#TA4	R7F7010573AFP-C#TA4	R7F7015663AFP-C#TA3	R7F7015973AFP-C#TA3
R7F7010344AFP-C#AA4	R7F7010574AFP-C#AA4	R7F7015664AFP-C#AA3	R7F7015974AFP-C#AA3
R7F7010344AFP-C#BA4	R7F7010574AFP-C#BA4	R7F7015664AFP-C#BA3	R7F7015974AFP-C#BA3
R7F7010344AFP-C#TA4	R7F7010574AFP-C#TA4	R7F7015664AFP-C#TA3	R7F7015974AFP-C#TA3
R7F7010503AFP-C#AA4	R7F701A013AFP-C#AA4	R7F7015673AFP-C#AA3	R7F7017643AFP-C#AA1
R7F7010503AFP-C#BA4	R7F701A013AFP-C#BA4	R7F7015673AFP-C#BA3	R7F7017643AFP-C#AA2
R7F7010503AFP-C#TA4	R7F701A013AFP-C#TA4	R7F7015673AFP-C#TA3	R7F7017643AFP-C#BA1
R7F7010504AFP-C#AA4	R7F701A014AFP-C#AA4	R7F7015674AFP-C#AA3	R7F7017643AFP-C#BA2
R7F7010504AFP-C#BA4	R7F701A014AFP-C#BA4	R7F7015674AFP-C#BA3	R7F7017643AFP-C#TA1
R7F7010504AFP-C#TA4	R7F701A014AFP-C#TA4	R7F7015674AFP-C#TA3	R7F7017643AFP-C#TA2
R7F7010513AFP-C#AA4	R7F7015463AFP-C#AA3	R7F7015753AFP-C#AA3	R7F701A634AFP-C#AA1
R7F7010513AFP-C#BA4	R7F7015463AFP-C#BA3	R7F7015753AFP-C#BA3	R7F701A634AFP-C#AA2
R7F7010513AFP-C#TA4	R7F7015463AFP-C#TA3	R7F7015753AFP-C#TA3	R7F701A634AFP-C#BA1
R7F7010514AFP-C#AA4	R7F7015464AFP-C#AA3	R7F7015754AFP-C#AA3	R7F701A634AFP-C#BA2
R7F7010514AFP-C#BA4	R7F7015464AFP-C#BA3	R7F7015754AFP-C#BA3	R7F701A634AFP-C#TA1
R7F7010514AFP-C#TA4	R7F7015464AFP-C#TA3	R7F7015754AFP-C#TA3	R7F701A634AFP-C#TA2
R7F7010523AFP-C#AA4	R7F7015473AFP-C#AA3	R7F7015773AFP-C#AA3	R7F701A763AFP-C#AA1
R7F7010523AFP-C#AA8	R7F7015473AFP-C#BA3	R7F7015773AFP-C#BA3	R7F701A763AFP-C#AA2

R7F7010523AFP-C#BA4	R7F7015473AFP-C#TA3	R7F7015773AFP-C#TA3	R7F701A763AFP-C#BA1
R7F7010523AFP-C#BA8	R7F7015474AFP-C#AA3	R7F7015774AFP-C#AA3	R7F701A763AFP-C#BA2
R7F7010523AFP-C#TA4	R7F7015474AFP-C#BA3	R7F7015774AFP-C#BA3	R7F701A763AFP-C#TA1
R7F7010523AFP-C#TA8	R7F7015474AFP-C#TA3	R7F7015774AFP-C#TA3	R7F701A763AFP-C#TA2

2. RH850/F1, D1 and P1 Series [Standard Support Tape]

R7F7015013AFP-C#AA2	R7F7010293AFP-C#AA4	R7F7016054AFP-C#KA3	R7F701401EA10AFB-C#KA1
R7F7015013AFP-C#BA2	R7F7010293AFP-C#BA4	R7F7016063AFP-C#AA3	R7F701401EA24AFB-C#KA1
R7F7015013AFP-C#TA2	R7F7010293AFP-C#KA4	R7F7016063AFP-C#BA3	R7F701401EA31AFB-C#KA1
R7F7015014AFP-C#AA2	R7F7010294AFP-C#AA4	R7F7016063AFP-C#KA3	R7F701401EA46AFB-C#KA1
R7F7015014AFP-C#BA2	R7F7010294AFP-C#BA4	R7F7016064AFP-C#AA3	R7F701402EAFB-C#AA1
R7F7015014AFP-C#TA2	R7F7010294AFP-C#KA4	R7F7016064AFP-C#BA3	R7F701402EAFB-C#KA1
R7F7015023AFP-C#AA2	R7F7010303AFP-C#AA4	R7F7016064AFP-C#KA3	R7F701402EAFB-C#BA1
R7F7015023AFP-C#BA2	R7F7010303AFP-C#BA4	R7F7016073AFP-C#AA3	R7F701422EAFB-C#AA1
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R7F7015024AFP-C#AA2	R7F7010304AFP-C#AA4	R7F7016073AFP-C#KA3	R7F701422EAFB-C#KA9
R7F7015024AFP-C#BA2	R7F7010304AFP-C#BA4	R7F7016074AFP-C#AA3	R7F701422EAFB-C#BA1
R7F7015024AFP-C#TA2	R7F7010304AFP-C#KA4	R7F7016074AFP-C#BA3	R7F701414EAFB-C#AA1
R7F7015263AFP-C#AA2	R7F7010463AFP-C#AA4	R7F7016074AFP-C#KA3	R7F701414EAFB-C#KA1
R7F7015263AFP-C#BA2	R7F7010463AFP-C#BA4	R7F7016123AFP-C#AA3	R7F701414EAFB-C#BA1
R7F7015263AFP-C#TA2	R7F7010463AFP-C#KA4	R7F7016123AFP-C#BA3	R7F701434EAFB-C#AA1
R7F7015264AFP-C#AA2	R7F7010464AFP-C#AA4	R7F7016123AFP-C#KA3	R7F701434EAFB-C#KA1
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R7F7015264AFP-C#TA2	R7F7010464AFP-C#KA4	R7F7016124AFP-C#BA3	R7F701402E***AFB-C#AA1
R7F7015273AFP-C#AA2	R7F7010473AFP-C#AA4	R7F7016124AFP-C#KA3	R7F701402E***AFB-C#KA1
R7F7015273AFP-C#BA2	R7F7010473AFP-C#BA4	R7F7016133AFP-C#AA3	R7F701402E***AFB-C#BA1
R7F7015273AFP-C#TA2	R7F7010473AFP-C#KA4	R7F7016133AFP-C#BA3	R7F701422E***AFB-C#AA1
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R7F7015484AFP-C#AA2	R7F7010484AFP-C#AA4	R7F7016223AFP-C#KA3	R7F701434E***AFB-C#AA1
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R7F7015484AFP-C#TA6	R7F7010493AFP-C#KA4	R7F7016233AFP-C#BA3	R7F701414EA04AFB-C#AA1
R7F7015493AFP-C#AA2	R7F7010494AFP-C#AA4	R7F7016233AFP-C#KA3	R7F701414EA05AFB-C#AA1
R7F7015493AFP-C#BA2	R7F7010494AFP-C#BA4	R7F7016234AFP-C#AA3	R7F701414EA11AFB-C#AA1
R7F7015493AFP-C#TA2	R7F7010494AFP-C#KA4	R7F7016234AFP-C#BA3	R7F701402EA12AFB-C#AA1

R7F7015494AFP-C#AA2	R7F7010543AFP-C#AA4	R7F7016234AFP-C#KA3	R7F701414EA13AFB-C#AA1
R7F7015494AFP-C#BA2	R7F7010543AFP-C#BA4	R7F7016363AFP-C#AA1	R7F701402EA14AFB-C#AA1
R7F7015494AFP-C#TA2	R7F7010543AFP-C#KA4	R7F7016363AFP-C#AA2	R7F701414EA15AFB-C#AA1
R7F7015683AFP-C#AA2	R7F7010544AFP-C#AA0	R7F7016363AFP-C#BA1	R7F701414EA16AFB-C#AA1
R7F7015683AFP-C#BA2	R7F7010544AFP-C#AA4	R7F7016363AFP-C#BA2	R7F701402EA02AFB-C#KA1
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R7F7017093AFP-C#AA1	R7F7015443AFP-C#BA2	R7F701A004AFP-C#KA4	R7F701423E***AFB-C#BA1
R7F7017093AFP-C#BA1	R7F7015443AFP-C#KA2	R7F701A534AFP-C#AA1	R7F701423E***AFB-C#TA1
R7F7017093AFP-C#TA1	R7F7015444AFP-C#AA2	R7F701A534AFP-C#BA1	R7F701423E***AFB-C#TA9
R7F701A243AFP-C#AA2	R7F7015444AFP-C#BA2	R7F701A534AFP-C#KA1	R7F701442EAFB-C#AA0
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R7F701A243AFP-C#TA2	R7F7015453AFP-C#AA2	R7F701A544AFP-C#BA1	R7F701462EAFB-C#AA0
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R7F701A244AFP-C#TA2	R7F7015454AFP-C#AA2	R7F701A574AFP-C#AA2	R7F701462EAFB-C#TA0
R7F701A293AFP-C#AA2	R7F7015454AFP-C#BA2	R7F701A574AFP-C#BA1	R7F701462EAFB-C#TA9
R7F701A293AFP-C#BA2	R7F7015454AFP-C#KA2	R7F701A574AFP-C#BA2	R7F701442E***AFB-C#AA0
R7F701A293AFP-C#TA2	R7F7015623AFP-C#AA3	R7F701A574AFP-C#KA1	R7F701442E***AFB-C#BA0

R7F701A303AFP-C#AA2	R7F7015623AFP-C#BA3	R7F701A574AFP-C#KA2	R7F701462E***AFB-C#AA0
R7F701A303AFP-C#BA2	R7F7015623AFP-C#KA3	R7F701A584AFP-C#AA1	R7F701462E***AFB-C#BA0
R7F701A303AFP-C#TA2	R7F7015624AFP-C#AA3	R7F701A584AFP-C#AA2	R7F701442E***AFB-C#TA0
R7F701A523AFP-C#BA1	R7F7015624AFP-C#BA3	R7F701A584AFP-C#BA1	R7F701462E***AFB-C#TA0
R7F701A594AFP-C#AA1	R7F7015624AFP-C#KA3	R7F701A584AFP-C#BA2	R7F701462E***AFB-C#TA9
R7F701A594AFP-C#AA2	R7F7015633AFP-C#AA3	R7F701A584AFP-C#KA1	R7F701314EAFP-C#AA1
R7F701A594AFP-C#BA1	R7F7015633AFP-C#BA3	R7F701A584AFP-C#KA2	R7F701314EAFP-C#BA1
R7F701A594AFP-C#BA2	R7F7015633AFP-C#KA3	R7F701A624AFP-C#AA1	R7F701314EAFP-C#KA1
R7F701A594AFP-C#TA1	R7F7015634AFP-C#AA3	R7F701A624AFP-C#AA2	R7F701315EAFP-C#AA1
R7F701A594AFP-C#TA2	R7F7015634AFP-C#BA3	R7F701A624AFP-C#BA1	R7F701315EAFP-C#BA1
R7F701A604AFP-C#AA1	R7F7015634AFP-C#KA3	R7F701A624AFP-C#BA2	R7F701315EAFP-C#KA1
R7F701A604AFP-C#AA2	R7F7015643AFP-C#AA2	R7F701A624AFP-C#KA1	R7F701322EAFP-C#AA1
R7F701A604AFP-C#BA1	R7F7015643AFP-C#BA2	R7F701A624AFP-C#KA2	R7F701322EAFP-C#BA1
R7F701A604AFP-C#BA2	R7F7015643AFP-C#KA2	R7F701A773AFP-C#AA1	R7F701322EAFP-C#KA1
R7F701A604AFP-C#TA1	R7F7015644AFP-C#AA2	R7F701A773AFP-C#AA2	R7F701323EAFP-C#AA1
R7F701A604AFP-C#TA2	R7F7015644AFP-C#BA2	R7F701A773AFP-C#BA1	R7F701323EAFP-C#BA1
R7F701A793AFP-C#AA1	R7F7015644AFP-C#KA2	R7F701A773AFP-C#BA2	R7F701323EAFP-C#KA1
R7F701A793AFP-C#AA2	R7F7015653AFP-C#AA2	R7F701A773AFP-C#KA1	R7F701366EAFP-C#AA1
R7F701A793AFP-C#BA1	R7F7015653AFP-C#BA2	R7F701A773AFP-C#KA2	R7F701366EAFP-C#BA1
R7F701A793AFP-C#BA2	R7F7015653AFP-C#KA2	R7F701A813AFP-C#AA1	R7F701366EAFP-C#KA1
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R7F701A793AFP-C#TA2	R7F7015654AFP-C#BA2	R7F701A813AFP-C#BA1	R7F701367EAFP-C#BA1
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R7F701A803AFP-C#AA2	R7F7015823AFP-C#AA3	R7F701A813AFP-C#KA1	R7F701379EAFP-C#AA2
R7F701A803AFP-C#BA1	R7F7015823AFP-C#BA3	R7F701A813AFP-C#KA2	R7F701379EAFP-C#BA2
R7F701A803AFP-C#BA2	R7F7015823AFP-C#KA3	R7F701A823AFP-C#AA1	R7F701379EAFP-C#KA2
R7F701A803AFP-C#TA1	R7F7015824AFP-C#AA3	R7F701A823AFP-C#AA2	R7F701380EAFP-C#AA2
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R7F7010063AFP-C#BA4	R7F7015833AFP-C#AA3	R7F701A823AFP-C#KA1	R7F701385EAFP-C#AA2
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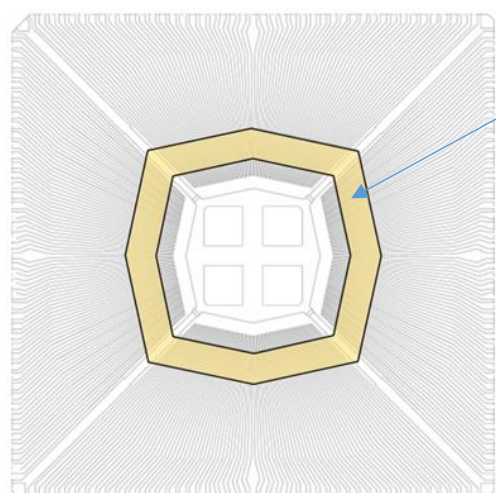
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***means ROM Code

Details of the change

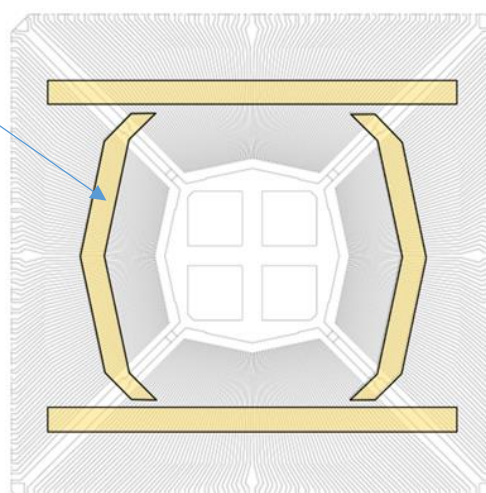
1. RH850/F1L, F1K and F1KM-S2 176pin products

Lead Frame: Before Change



Conventional Lead Frame and conventional Support Tape

Lead Frame: After Change

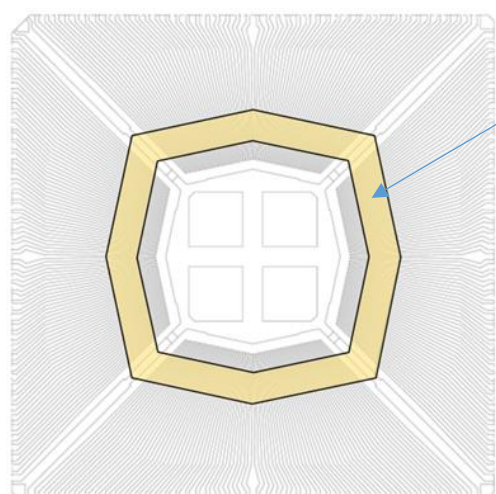


Standard Lead Frame and standard Support Tape

* Manufacturers of Lead Frame will attach Support Tape.

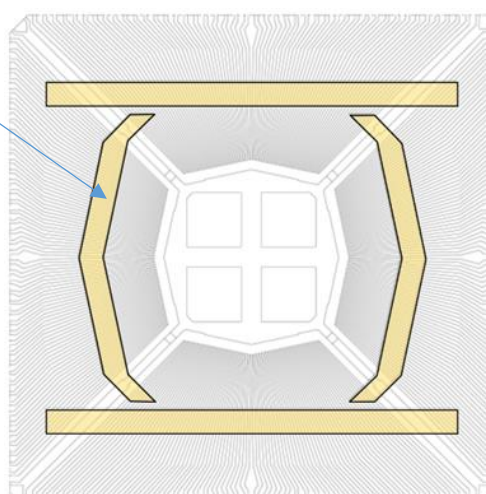
2. 176pin products other than RH850/F1L, F1K and F1KM-S2, and 144pin products.

Lead Frame (e.g. 176pin): Before Change



Conventional Support Tape

Lead Frame (e.g.176pin): After Change



Standard Support Tape

* Manufacturers of Lead Frame will attach Support Tape.

Q100 Qualification Test Results

AEC-Q100-REV-H

[Note : Qualification tests were performed using a representative product with the same wafer process and the same package structure, and also using generic data.]

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP A – ACCELERATED ENVIRONMENT STRESS TESTS

PC	A1	JESD22 A113 J-STD-020	Preconditioning: (Test @ Rm) SMD only; Moisture Preconditioning for THB/HAST, AC/UHST, TC, & PTC ; Peak Reflow Temp=260°C	Min.MSL=3			MSL=3	-
THB or HAST	A2	JESD22 A101	Temperature Humidity Bias: (Test @ Rm/Hot) Ta=85°C, RH=85%, 1000hrs	3	77	231	0 of 231	-
AC or UHST or TH	A3	JESD22 A118	Unbiased Highly Accelerated Stress Test: (Test @ Rm) Ta=110°C, 85% RH, 264h	3	77	231	0 of 231	-
TC	A4	JESD22 A104	Temperature Cycle: (Test @ Hot) Ta=-55°C to 150°C, 1000cyc	3	77	231	0 of 231 0 Fails after TC (WBP)	-
PTC	A5	JESD22 A105	Power Temperature Cycle: (Test @ Rm/Hot) -	-	-	-	-	N/A
HTSL	A6	JESD22 A103	High Temperature Storage Life: (Test @ Rm/Hot) Ta=175°C, 500hrs	1	45	45	0 of 45	-

TEST GROUP B – ACCELERATED LIFETIME SIMULATION TESTS

HTOL	B1	JESD22 A108	High Temp Operating Life: (Test @ Rm/Cold/Hot) Ta=150°C, 1000hrs	3	77	231	0 of 231	-
ELFR	B2	AEC-Q100-008	Early Life Failure Rate: (Test @ Rm/Hot) Ta=125°C, 48hrs	3	800	2400	0 of 2400	-
EDR	B3	AEC-Q100-005	NVM Endurance & Data Retention Test: (Test @ Rm/Hot)	For HTOL	3	77	231	0 of 231
				For HTSL	1	45	45	0 of 45

TEST GROUP C – PACKAGE ASSEMBLY INTEGRITY TESTS

WBS	C1	AEC-Q100-001 AEC-Q003	Wire Bond Shear Test: (Cpk > 1.67)	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
WBP	C2	Mil-STD-883 Method 2011 AEC-Q003	Wire Bond Pull: (Cpk > 1.67); Each bonder used	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
SD	C3	JESD22 B102 JSTD-002D	Solderability: (>95% coverage) 8 hr steam aging prior to testing	1	15	15	0 of 15	-
PD	C4	JESD22 B100, JESD22 B108 AEC-Q003	Physical Dimensions: (Cpk > 1.67)	3	10	30	0 of 30	Cpk>1.67
SBS	C5	AEC-Q100-010 AEC-Q003	Solder Ball Shear: (Cpk > 1.67); 5 balls from min. of 10 devices	-	-	-	-	N/A
LI	C6	JESD22 B105	Lead Integrity: (No lead cracking or breaking); Through-hole only; 10 leads from each of 5 devices	-	-	-	-	N/A

TEST GROUP D – DIE FABRICATION RELIABILITY TESTS

EM	D1	JESD61	Electromigration:	-	-	-	Pass	Confirmed by process TEG
TDDb	D2	JESD35	Time Dependant Dielectric Breakdown:	-	-	-	Pass	Confirmed by process TEG
HCI	D3	JESD60 & 28	Hot Carrier Injection:	-	-	-	Pass	Confirmed by process TEG
NBTI	D4	JESD90	Negative Bias Temperature Instability:	-	-	-	Pass	Confirmed by process TEG
SM	D5	JESD61,87 & 202	Stress Migration:	-	-	-	Pass	Confirmed by process TEG

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP E- ELECTRICAL VERIFICATION

TEST	E1	User/Supplier Specification	Pre and Post Stress Electrical Test:	All	All	All	0 of All	-
HBM	E2	AEC-Q100-002	Electrostatic Discharge, Human Body Model: (Test @ Rm/Hot); (2KV HBM / Class 2 or better)	1	3	3	0 of 3 ESD Level= HBM:2	HBM>2KV
CDM	E3	AEC-Q100-011	Electrostatic Discharge, Charged Device Model: (Test @ Rm/Hot); (750V corner leads, 500V all other leads / Class C4B or better)	1	3	3	0 of 3 ESD Level= CDM:C4B	Corner leads: 750V Pass All other leads:500V Pass
LU	E4	AEC-Q100-004	Latch-Up: (Test @ Rm/Hot)	1	6	6	0 of 6	-
ED	E5	AEC-Q100-009 AEC-Q003	Electrical Distributions: (Test @ Rm/Hot/Cold) (where applicable, Cpk>1.67)	3	30	90	Cpk>1.67	-
FG	E6	AEC-Q100-007	Fault Grading:	-	-	-	>98%	-
CHAR	E7	AEC-Q003	Characterization: (Test @ Rm/Hot/Cold)	-	-	-	Pass	According to Renesas standard procedure
EMC	E9	SAE J1752/3	Electromagnetic Compatibility (Radiated Emissions)	1	1	1	0 of 1	-
SC	E10	AEC Q100-012	Short Circuit Characterization	-	-	-	-	N/A
SER	E11	JESD89-1 JESD89-2 JESD89-3	Soft Error Rate	1	3	3	Pass	-
LF	E12	AEC-Q005	Lead (Pb) Free: (see AEC-Q005)	-	-	-	Pass	Solderability: See SD (C3) result. Solder heat resistance: N/A (Wave Solder is Not recommended.) Whisker: Performed on product TEG with test method based on JESD201.

TEST GROUP F – DEFECT SCREENING TESTS

PAT	F1	AEC-Q001	Process Average Testing: (see AEC-Q001)	All	All	All	Reject units outside PAT limits	Apply to mass production according to Renesas standard procedure
SBA	F2	AEC-Q002	Statistical Bin/Yield Analysis: (see AEC-Q002)	All	All	All	Reject units outside criteria	Apply to mass production according to Renesas standard procedure

TEST GROUP G – CAVITY PACKAGE INTEGRITY TESTS (for Ceramic Package testing only)

MS	G1	JESD22 B104	Mechanical Shock: (Test @ Rm)	-	-	-	-	N/A
VFV	G2	JESD22 B103	Variable Frequency Vibration: (Test @ Rm)	-	-	-	-	N/A
CA	G3	MIL-STD-883 Method 2001	Constant Acceleration: (Test @ Rm)	-	-	-	-	N/A
GFL	G4	MIL-STD-883 Method 1014	Gross and Fine Leak:	-	-	-	-	N/A
DROP	G5	-----	Drop Test: (Test @ Rm) MEMS cavity parts only. Drop part on each of 6 axes once from a height of 1.2m onto a concrete surface.	-	-	-	-	N/A
LT	G6	MIL-STD-883 Method 2004	Lid Torque:	-	-	-	-	N/A
DS	G7	MIL-STD-883 Method 2019	Die Shear:	-	-	-	-	N/A
IWV	G8	MIL-STD-883 Method 1018	Internal Water Vapor:	-	-	-	-	N/A